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8 CHAPTER1. INTRODUCTION 1.3 BRIEFHISTORY Important

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Concepts of poroelasticity developed somewhat independently in geomechanics, petroleum engineering, and hydrogeology ...

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Linear poroelasticity is a theory that includes the coupling between linear diffusion of a mobile species and the stress and deformation of a linear elastic porous solid. This theory has been widely applied not only to soils and rock masses infiltrated by groundwater but also to coupling of fluid flow and

~~Linear Poroelasticity—Environmental Engineering~~

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1.2 Basic Concepts 5 1.3 Brief ...

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Title: An introduction to linear poroelasticity. An introduction to linear poroelasticity. This study is an introduction to the theory of three-dimensional consolidation. The point of departure in the description are the basic equations of elasticity (i.e. constitutive law, equations of equilibrium in terms of stresses, and the definition of strain), together with the principle of effective stress, and the law of Darcy for fluid flow in porous media.

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Poroelasticity is a field in materials science and mechanics that

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studies the interaction between fluid flow and solids deformation within a linear porous medium and it is an extension of elasticity and porous medium flow (diffusion equation). The deformation of the medium influences the flow of the fluid and vice versa.

~~Poroelasticity—Wikipedia~~

One of the key findings of the theory of poroelasticity is that in poroelastic media there exist three types of elastic waves: a shear or transverse wave, and two types of longitudinal or compressional waves, which Biot called type I and type II waves. The transverse and type I (or fast) longitudinal wave are similar to the transverse and longitudinal waves in an elastic solid, respectively.

~~Poromechanics—Wikipedia~~

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sical theory of linear poroelasticity captures this coupling by combining Darcy's law with Terzaghi's effective stress and linear elasticity in a linearized kinematic framework Linear poroelasticity is a good model for very small deformations, but it becomes increasingly inappropriate for

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A linear theory The theory of linear poroelasticity, originally developed by Biot⁵ for soil consolidation, has been extended to gels^{3,4,6}¹⁵ In this section, by linearizing the equations of the nonlinear theory at the vicinity of an isotropically swollen state, we derive a set of linear equations for

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linear poroelasticity is a theory that includes the coupling between linear diffusion of a mobile species and the stress and deformation of a linear elastic porous solid this theory has been widely applied not

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